

**CALIFORNIA WILDLIFE HABITAT RELATIONSHIPS SYSTEM**  
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B047 Pelagic Cormorant *Phalacrocorax pelagicus*  
Family: Phalacrocoracidae Order: Pelecaniformes Class: Aves

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#### DISTRIBUTION, ABUNDANCE, AND SEASONALITY

The pelagic cormorant is a fairly common yearlong resident in marine subtidal, and uncommon in marine pelagic, habitats along rocky coasts of mainland and islands south to San Luis Obispo Co. and Santa Barbara Island. Breeds April to August or September on steep rocky cliffs; locally common in large nesting colonies. Along remainder of coast, fairly common September to April and rare or uncommon through summer. Occurs locally in outermost parts of estuaries. During salmon runs, occurs several miles inland along Klamath River, Del Norte Co. (Cogswell 1977, McCaskie et al. 1979, DeSante and Ainley 1980, Garrett and Dunn 1981).

#### SPECIFIC HABITAT REQUIREMENTS

**Feeding:** Eats mainly small fish, but also crustaceans. Dives from water surface and pursues prey underwater, usually near rocky shores. Prefers to feed off rocky bottom of relatively shallow water (Robertson 1974). Has been caught in nets as deep as 36 m (120 ft); will dive into heavy surf near cliffs and boulders.

**Cover:** Rests and roosts on steep rocky cliffs and offshore rocks. Can take flight more readily than other cormorants; thus, does not need as long a span of open water.

**Reproduction:** Nests on precipitous, rocky cliffs of islands or mainland; uses narrower ledges than Brandt's or double-crested cormorants.

**Water:** No additional data found.

**Pattern:** Requires steep rocky cliffs for nesting, near dependable food supply.

#### SPECIES LIFE HISTORY

**Activity Patterns:** Yearlong, diurnal activity.

**Seasonal Movements/Migration:** Most individuals probably are resident near their nesting location, but there is some southward movement after nesting. The population south of San Luis Obispo Co. clearly increases September to April (DeSante and Ainley 1980, Garrett and Dunn 1981).

**Home Range:** No data found.

**Territory:** Probably restricted to the immediate nest site, as with other North American cormorants (Palmer 1962).

Reproduction: Breeds from April to August or September; eggs laid mainly May to June. Monogamous, colonial nester, but has smaller colonies than double crested or Brandt's cormorants. Clutch size usually 3-5, occasionally 6-7; replacement clutches usually 2-3. Number of broods unknown. Incubation reportedly 26 days, by both parents. Altricial young. Ages at first flight, independence, and first breeding unknown (Palmer 1962).

Niche: Gulls and crows are important predators on eggs and chicks (Siegel-Causey and Hunt 1981); predation more likely when adults are frightened from nests. Sometimes are attracted to schools of fish by behavior of gulls, and often drive the gulls away.

## REFERENCES

- Cogswell, H. L. 1977. Water birds of California. Univ. California Press, Berkeley. 399pp.
- Desante, D. F., and D. G. Ainley. 1980. The avifauna of the South Farallon Islands, California. Studies in Avian Biol. No. 4. Cooper Ornithol. Soc., Lawrence KA. 104pp.
- Garrett, K., and J. Dunn. 1981. Birds of southern California. Los Angeles Audubon Soc. 408pp.
- McCaskie, G., P. De Benedictis, R. Erickson, and J. Morlan. 1979. Birds of northern California, an annotated field list. 2nd ed. Golden Gate Audubon Soc., Berkeley. 84pp.
- Palmer, R. S., ed. 1962. Handbook of North American birds. Vol. 1. Yale University Press, New Haven, CT. 567pp.
- Robertson, I. 1974. The food of nesting double-crested and pelagic cormorants at Mandarte Island, British Columbia, with notes on feeding ecology. Condor 76:346-348.
- Siegel-Causey, D., and G. L. Hunt, Jr. 1981. Colonial defense behavior in double-crested and pelagic cormorants. Auk 98:522-531.
- success (Ellison and Cleary 1978, Siegel-Causey and Hunt 1981).

Comments: A California Species of Special Concern (Remsen 1978). Numbers declining throughout North America.

## REFERENCES

- Bartholomew, G. A., Jr. 1943. The daily movements of cormorants on San Francisco Bay. Condor 45:3-18.
- Cogswell, H. L. 1977. Water birds of California. Univ. California Press, Berkeley. 399pp.
- Ellison, L. N., and L. Cleary. 1978. Effects of human disturbance on breeding of double-crested cormorants. Auk 95:510-517.
- Garrett, K., and J. Dunn. 1981. Birds of southern California. Los Angeles Audubon Soc. 408pp.
- Lewis, H. F. 1929. The natural history of the double-crested cormorant (*Phalacrocorax auritus auritus*). Ru-Mi-Lou Books, Ottawa. 94pp.
- McCaskie, G., P. De Benedictis, R. Erickson, and J. Morlan. 1979. Birds of northern California, an annotated field list. 2nd ed. Golden Gate Audubon Soc., Berkeley. 84pp.
- McLeod, J. A., and G. F. Bondar. 1953. A brief study of the double-crested cormorant on Lake Winnipegosis. Can. Field-Nat. 67:1-11.
- Mendall, H. L. 1936. Home life and economic status of the double-crested cormorant. Univ. Maine Studies, Second Ser., No. 38. 159pp.
- Palmer, R. S., ed. 1962. Handbook of North American birds. Vol. 1. Yale University Press, New Haven, CT. 567pp.
- Remsen, J. V., Jr. 1978. Bird species of special concern in California. Calif. Dept. of Fish and Game, Sacramento. Wildl. Manage. Admin. Rep. No. 78-1. 54pp.
- Robertson, I. 1974. The food of nesting double-crested and pelagic cormorants at Mandarte Island, British Columbia, with notes on feeding ecology. Condor 76:346-348.
- Siegel-Causey, D., and G. L. Hunt. 1981. Colonial defense behavior in double-crested and pelagic cormorants. Auk 98:522-531.
- Vermeer, K. 1970a. Some aspects of nesting of double-crested cormorants at Cypress Lake, Saskatchewan in 1969, a plea for protection. Blue Jay 28:11-13.

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